

BIOGAS/SEWER GAS

BIOGAS CHP UNIT UTILISING CONDENSING TECHNOLOGY



BIOGASANLAGE MARKUS WEHRLE

Bercherhof 3, 79801 Hohentengen-Bergöschingen

Following on from the positive experience with the Bomat AWR 08-GG-1046-MT-4-9-3 exhaust gas heat exchanger installed in 2019, the condensing heat exchanger cascade consisting of two Bomat 03-KK-1064-MT-4-9-6 heat exchangers from the modular Profitherm series was installed as a downstream exhaust gas heat exchanger in 2021. The heat recovered is supplied to the heating network on the water side via the sewage sludge drying return to raise the return temperature.



Heat source:	Jenbacher JMS 312 GS-BL 549 kW
Fuel:	<input type="radio"/> Fuel oil <input type="radio"/> Natural gas <input type="radio"/> Sewer gas <input checked="" type="radio"/> Biogas
Exhaust gas heat exchanger:	03-KK-1064-MT-4-9-6 (year of manufacture: 2021)
Exhaust gas temperature:	approx. 200°C (upstream of HE) ➡ approx. 60°C (downstream of HE)
Coolant temperature:	approx. 35°C (upstream of HE) ➡ approx. 50°C (downstream of HE)
Heat recovery per year:	approx. 840,000 kWh
CO₂ reduction per year:	approx. 168,000 kg

➡ Estimated payback period **less than 3 YEARS.**

BOMAT Energiesysteme GmbH

Zum Degenhardt 49 T +49 (0) 75 51.80 99 70 info@bomat.de
88662 Überlingen F +49 (0) 75 51.80 99 71 www.bomat.de

